



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

649.5013

Job Sheet 177613



Part No: 649.5013

Job Qty: ~~18 ea~~

Part Name: Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/15/18

Job Tracking No:

Due Date: 5/31/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV D IPP REV:A NEW ISSUE 13-09-24 RQ VERIFIED BY:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
90	Start up Operation	18 Ea		5/31/18	0.00	0.00	Start Up Machining-1		
100	Bandsaw	18 pcs		5/31/18	0.00	0.90	Bandsaw1		DAS 54
110	CNC Vertical Machining	18 pcs		5/31/18	0.00	7.06	HAAS1-1		9-89
120	QC	18 pcs		5/31/18	0.00	0.00	QC2 Machining-1		
130	QC	18 pcs		5/31/18	0.00	0.00	QC8 Machining-1		
140	Outsource	18 pcs		5/31/18			ATG001-VC	10	
150	Packaging	18 pcs		5/31/18	0.00	0.00	Packaging2		
155	QC	18 pcs		5/31/18	0.00	0.00	QC5		
180	Packaging	18 pcs		5/31/18	0.00	0.00	Packaging3-1		
190	QC21-SA	18 Ea		5/31/18	0.00	0.00	QC21		

Part Op 100 - Cut Blank at 7.500"

Descriptions: 110 - 1-Machine per folio FB212 DWG REV: _____ FOLIO REV: _____ 2- deburr and break all sharp edges
140 - Issue P/O to ATG: P00340026 AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required
180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
649.5013E	Deflector	11.2500 ft (.625 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	649.5013E	11	92	0

Part Specifications

Specifications could not be found.

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order:		DISPOSITION		AGAINST DEPARTMENT/PROCESS																																																																																																																																																																			
Part No.		Rework		Skid-tube		Cross tube		Water Jet		Engineering																																																																																																																																																													
NCR No.		Scrap		Machining		Small Fab		Prod. Eng. Coord.		Quality																																																																																																																																																													
		Use-as-is		Thermoforming		Finishing		Rec/Store/Packaging		Other																																																																																																																																																													
		Suspected Unapproved		Large Fab		Composite		Supplier																																																																																																																																																															
Date :		Step #:		QTY				Approval																																																																																																																																																															
Description Work Order Deviation																																																																																																																																																																							
1670 AEROSPACE AVE HARTFORD, CT 06105 CANADA TEL: 1 813 632-6200 Email: sales@dentaro.com www.dentaro.com DAKI AEROSPACE Container No: S074884 Part: 649.5013 Job No: 177613 Serial No/Batch: S074884 Revision: Inspector: Date: 05/27/18 By Supervisor Inspector Long isions erance																																																																																																																																																																							
<table border="1"> <thead> <tr> <th colspan="4">Root Cause</th> <th colspan="4"></th> <th colspan="4"></th> </tr> </thead> <tbody> <tr> <td>Environment</td> <td></td> <td>No Re-verification</td> <td></td> <td>Pressure/Forced</td> <td></td> <td>Inspection Incomplete/Unqualified</td> <td></td> <td>Wrong Stock Pulled</td> <td></td> <td>Part Incorrect</td> <td></td> </tr> <tr> <td>Design</td> <td></td> <td>Operator</td> <td></td> <td>Bending</td> <td></td> <td>Contamination</td> <td></td> <td>Out of Sequence</td> <td></td> <td>Part Lost/Missing</td> <td></td> </tr> <tr> <td>Doc/Data</td> <td></td> <td>Offset/Setup</td> <td></td> <td>Centre Not Concentric</td> <td></td> <td>Countersink</td> <td></td> <td>Off-set</td> <td></td> <td>Part Moved</td> <td></td> </tr> <tr> <td>Equip/Tooling</td> <td></td> <td>Supplier</td> <td></td> <td>Cracks</td> <td></td> <td>Cut Too Short</td> <td></td> <td>Mislabeled</td> <td></td> <td>Drawing</td> <td></td> </tr> <tr> <td>Handling/Pre</td> <td></td> <td>Training</td> <td></td> <td>Crimp/Kink/Ripple/Wave</td> <td></td> <td>Instructions Incomplete/Unclear</td> <td></td> <td>Fit/Function</td> <td></td> <td>Finish</td> <td></td> </tr> <tr> <td>Material</td> <td></td> <td>Use for Testing</td> <td></td> <td>Cuffs</td> <td></td> <td>Drill Holes</td> <td></td> <td>Misaligned/off center</td> <td></td> <td>Misread</td> <td></td> </tr> <tr> <td>Internal Transport</td> <td></td> <td>Poor Information</td> <td></td> <td>Crushing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Turning Sequence</td> <td></td> </tr> <tr> <td>Tribal Knowledge</td> <td></td> <td>Rushing</td> <td></td> <td>Heat Treat</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LOA</td> <td></td> <td>Product Improvement</td> <td></td> <td>Wave/Twist in Tube</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Substation</td> <td></td> <td>Process Improvement</td> <td></td> <td>Marks/Chatter</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Past Expiry Date</td> <td></td> <td>Manufacturing Process</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Misidentified</td> <td></td> <td>Past Due</td> <td></td> <td>OTHER :</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Root Cause												Environment		No Re-verification		Pressure/Forced		Inspection Incomplete/Unqualified		Wrong Stock Pulled		Part Incorrect		Design		Operator		Bending		Contamination		Out of Sequence		Part Lost/Missing		Doc/Data		Offset/Setup		Centre Not Concentric		Countersink		Off-set		Part Moved		Equip/Tooling		Supplier		Cracks		Cut Too Short		Mislabeled		Drawing		Handling/Pre		Training		Crimp/Kink/Ripple/Wave		Instructions Incomplete/Unclear		Fit/Function		Finish		Material		Use for Testing		Cuffs		Drill Holes		Misaligned/off center		Misread		Internal Transport		Poor Information		Crushing						Turning Sequence		Tribal Knowledge		Rushing		Heat Treat								LOA		Product Improvement		Wave/Twist in Tube								Substation		Process Improvement		Marks/Chatter								Past Expiry Date		Manufacturing Process										Misidentified		Past Due		OTHER :							
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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

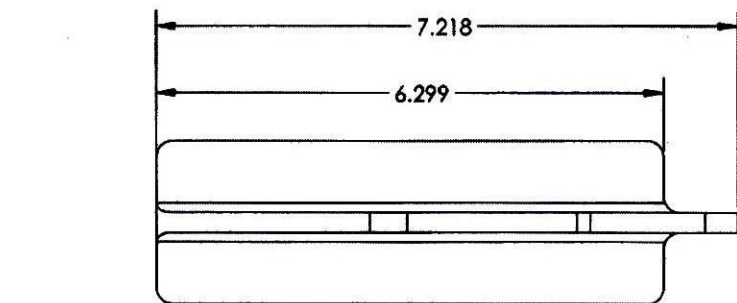


QA Closed: _____ Date: _____

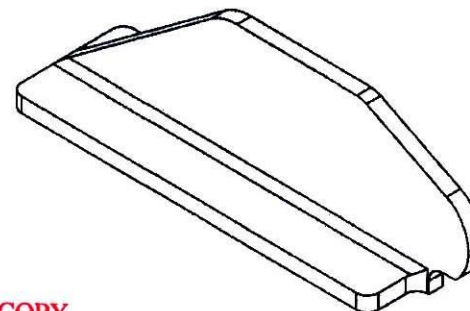
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date : _____	Step #: _____	QTY Effective : _____			MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			Completed By	
					Lead hand / Supervisor Approval Verification	
					QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____						

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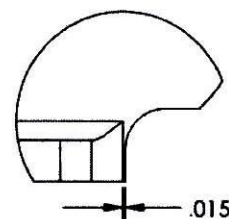
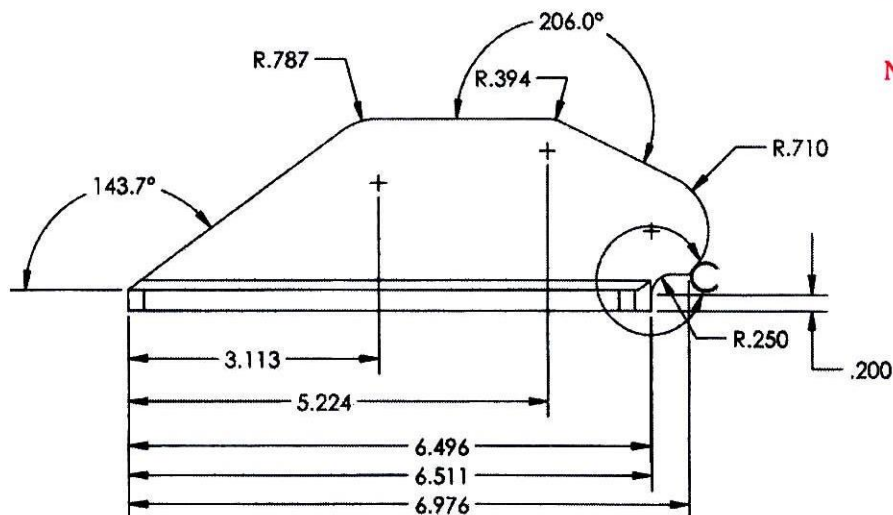


R.197 4PL

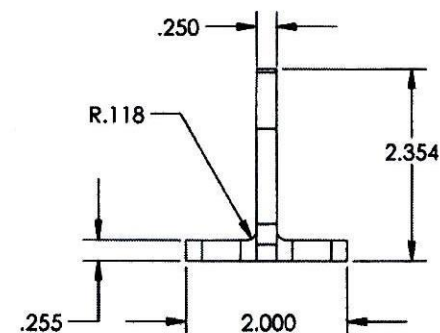


649.5013

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 177612ms
180515



DETAIL C
SCALE 2:1.5



ORIGINAL DATE 11-03-11		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5500	
DRAWN BY A. GRAM		CHECKED BY P. BRAY	
DRAWING APPROVAL P. BRAY		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.		DEFLECTOR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .010 3 PLACE DECIMALS .005 ANGLES .5°		SET B	SCALE NONE
CAGE CODE 07M26	DWG. NO. 649.5000	REV. D	SHEET 4 OF 5

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040026**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO040026
PO Date: 5/29/18
Due Date: 6/13/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pynt Terms: Net 30

Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	177613	649.5013	Deflector Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A- 8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed	5/31/18	19 pcs	0 pcs	19 pcs	\$16.10/pcs	\$305.90
Line Item Note ** URGENT part - need back Thursday ** AT 18/05/31 JUN 01 2018										
2	177164	649.5011	Deflector Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A- 8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed	5/31/18	10 pcs	0 pcs	10 pcs	\$15.00/pcs	\$150.00
Line Item Note ** URGENT part - need back Thursday ** AT 18/05/31										
3	177161	646.9910	Struts Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.9900 rev. N/C	Firmed	6/13/18	12 pcs	0 pcs	12 pcs	\$17.90/pcs	\$214.80

DAS
11
9-89



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 915271

Date: 31-May-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
19 ea	Part: 649.5013 Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 23187 PO: PO040026 Line: 1	Rev: D	DAS 11 9-89 JUN 01 2018
10 ea	Part: 649.5011 Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 23188 PO: PO040026 Line: 2	Rev: D	
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>MAY 31 2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. Made in Canada.			